Creel Census and Biological Data from the Lake Trout Sport Fishery on Great Bear and Great Slave Lakes, Northwest Territories, 1980

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by

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ABSTRACT

Gillman, D.V., and M.M. Roberge. 1982. Creel census and biological data from the lake trout sport fishery on Great Bear and Great Slave lakes, Northwest Territories, 1980. Can. Data Rep. Fish. Aquat. Sci. 338: v + 24 p.

Information collected from a creel census and biological sampling program conducted at two sport fishing lodges on Great Bear and Great Slave lakes in 1980 is presented in tabular and graphic form. Creel census data includes catch, effort and harvest statistics. Biological information includes length, weight, age, sex and maturity characteristics of lake trout, Salvelinus namaycush (Walbaum). Results from experimental netting and tagging programs on the two lakes are included.

Key words: angling; catch/effort; exploitation; fishery management; gillnetting; monitoring; sport fishing statistics; tagging; Salvelinus namaycush.

RESUME

Gillman, D.V., and M.M. Roberge. 1982. Creel census and biological data from the lake trout sport fishery on Great Bear and Great Slave lakes, Northwest Territories, 1980. Can. Data Rep. Fish. Aquat. Sci. 338: v + 24 p.

On présente sous forme de tableaux et de graphiques les données recueillies lors du recensement et de l'échantillonnage biologique effectués en 1980 dans deux pavillons de pêche sportive, l'un sur le Great Bear Lake et l'autre sur le Great Slave Lake. Le recensement a fourni les statistiques sur les prises, le temps et la récolte, tandis que l'échantillonnage biologique portait sur la longueur, le poids, l'âge, le sexe et les caractéristiques de maturité du touladi, Salvelinus namaycush (Walbaum). Sont également comprises les données des programmes de pêche expérimentale aux filets et d'étiquetage entrepris sur ces deux lacs.

Mots-clés: pêche à la ligne; prises/effort; exploitation; gestion des pêches; pêche aux filets maillants; contrôle; statistiques sur la pêche sportive; étiquetage; Salvelinus namaycush.

INTRODUCTION

Creel census and biological sampling programs have been conducted yearly on Great Bear and Great Slave lakes since 1972 (Falk et al. 1973, 1974a,b,c, 1975, 1982; Moshenko and Gillman 1978a,b, and In prep). Initially (1972-73) all major sport fishing lodges on both lakes were censused yearly (Fig. 1); however, since 1975, rotational monitoring of the harvest of sport fish (lake trout, Arctic grayling, northern pike) from only one lodge per lake per year has been done. Tagging and experimental netting programs were introduced in 1975 to provide more comprehensive information on the areas surveyed.

The objectives of the investigation are to monitor the harvest of sport fish species, particularly lake trout, Salvelinus namaycush (Walbaum), to define further possible effects of exploitation and to provide biological data for use in the development of sport fishery management strategies for these lakes. One strategy in use on Great Bear and Great Slave lakes is the regulation of the daily catch and total possession limits. Prior to 1974 the catch and possession limits for lake trout from Great Bear and Great Slave lakes were 5 and 10 lake trout, respectively. These were reduced in 1975 to 3 and 5 lake trout and continued to be in effect until 1978. In 1979, the catch and possession limits were further reduced to 2 and 3 lake trout. All other lakes in the Territories have catch and possession limits of 3 and 5 lake trout.

On 24 January 1978, a U.S.S.R. satellite (Cosmos 954) disintegrated in the air above Great Slave Lake, N.W.T. scattering radioactive debris across the lake and ENE to the vicinity of Baker Lake. The satellite (containing a highly enriched ^{235}U fueled nuclear reactor power source and radioactive components of the fuel), fission products and activation products were found on the lake ice (AECB, personal communication; R.L. Grasty, Geological Survey of Canada, personal communication). During 1978, the Department of Fisheries and Oceans (Western Region) sampled the major fish species for possible contamination from Cosmos 954 debris. Fish from three locations (Fort Resolution, Snowdrift and Reliance) on Great Slave Lake were obtained by gillnetting under the ice in April, 1978 and from a boat in September, 1978.

This report presents in tabular form the 1980 creel census data from two sport fishing lodges on Great Bear and Great Slave lakes, biological data on lake trout obtained from experimental gillnetting in these lakes in 1980 and recapture information for lake trout tagged in Great Slave Lake, 1972-1980. In addition, biological data for lake trout taken from the Snowdrift area (Cosmos program) is presented.

MATERIALS AND METHODS

CREEL CENSUS

During 1980 a creel census was conducted at Great Bear Trophy Lodge on Great Bear Lake (Fig. 2) and Frontier Fishing Lodge on Great Slave Lake (Fig. 3). Details concerning the operation of sport fishing lodges on these lakes has been described previously by Falk et al. (1973, 1974a) and Moshenko and Gillman (1978a).

Creel census methods have been described previously by Falk et al. (1973, 1974a) and Moshenko and Gillman (1978a). Upon returning from a day's fishing as many anglers as possible were questioned as to the number of fish of each species caught, released, retained and used for shore lunches as well as the hours and locations fished. The number of anglers not interviewed and/or those not fishing on a daily basis were recorded as was the total number of anglers present at the lodge each week. The usual length of stay is one week and guests are rotated on or near the weekend.

Procedures followed in calculating the total harvest from individual lodges has been outlined by Falk et al. (1974a) and Moshenko and Gillman (1978a). Release mortality of angled lake trout was calculated after Falk et al. (1974c).

BIOLOGICAL INVESTIGATION

Biological sampling was conducted as part of the creel census program on Great Bear and Great Slave lakes in 1980. Biological information (length and weight) on lake trout from the angler's creel was collected. Additional biological information on lake trout was obtained from experimental gillnetting in the vicinity of the sport fishing lodges censused during 1980 to determine population structure and to capture trout for tagging studies; by experimental netting near Snowdrift on Great Slave Lake during 1978 to obtain fish for radionuclide analysis as part of the Cosmos 954 satellite study; and from trophy lake trout sent to Hawkins Taxidermists Ltd. of Winnipeg, Manitoba.

Netting was conducted in the vicinity of Great Bear Trophy Lodge and Frontier Fishing Lodge during 1980 using 38 mm (stretch measure) nylon gillnets to capture lake trout for tagging. Small mesh gillnets were used since they tend to entangle trout by the teeth rather than the gill area and thereby reducing netting mortality. Lake trout captured by gillnet were sampled for fork length (±1 mm), tagged and released.

As part of the Cosmos 954 satellite investigation lake trout and other fish species were sampled from the Snowdrift area of Great Slave Lake using 38, 64, 89, 114 and 140 mm (stretch measure) nylon gillnet gangs. All lake trout were sampled for fork length (±1 mm), weight (± 50 g), sex, maturity and otoliths (for aging).

Sex and maturity were determined for dead-sampled lake trout by examination of the gonads. Relative stages of maturity were coded according to Falk et al. (1982).

Sagittal otoliths were obtained from dead-sampled lake trout and stored dry in envelopes marked with the sample information. In the laboratory the convex surface of the otolith was ground on a fine carborundum stone to expose the

annual growth zones. The otolith was then immersed in a 3:1 solution of benzylbenzoate and methyl salicylate on a depression slide and read under a dissecting microscope.

TAGGING

Lake trout captured by small mesh gillnets and angling were tagged in the vicinity of Great Bear Trophy Lodge and Frontier Lodge during 1980. Numbered Floy tags and a Dennison tagging gun (Model FDM-68) were used. Tags were inserted on the left side of the fish near the base of the dorsal fin and anchored through the posterior pterigiophores. Trout in good condition were released immediately after tagging. The tagging program was advertised throughout the Great Bear and Great Slave lakes area. A two dollar reward was offered for the return of the tag and related information.

DATA ANALYSIS

Biological data collected were analyzed using an IBM 370/168 computer based at the University of Manitoba and a terminal located at the Freshwater Institute. The Statistical Analysis System (1972) was used to generate length, weight, age, sex and maturity summaries and to perform basic calculations. Some analyses were performed using a Hewlett-Packard programmable calculator (Model 9810-A).

Total annual mortality rates (natural and fishing) were calculated using the methods outlined by Robson and Chapman (1961). An explanation of the method and its development in relation to northern lake trout populations is given by Moshenko and Gillman (1978a). Length-weight relationships were determined using the following power equation:

$$\text{Log}_{10}W = a + b\ (\text{log}_{10}L)$$

where: W = weight in grams
a = Y-intercept
b = slope of the regression line
L = fork length in millimeters

The standard deviation of the coefficient b (S_b) was also calculated.

Relative condition factors (K) were determined using the formula:

$$K = \frac{W \times 10^5}{L^3}$$

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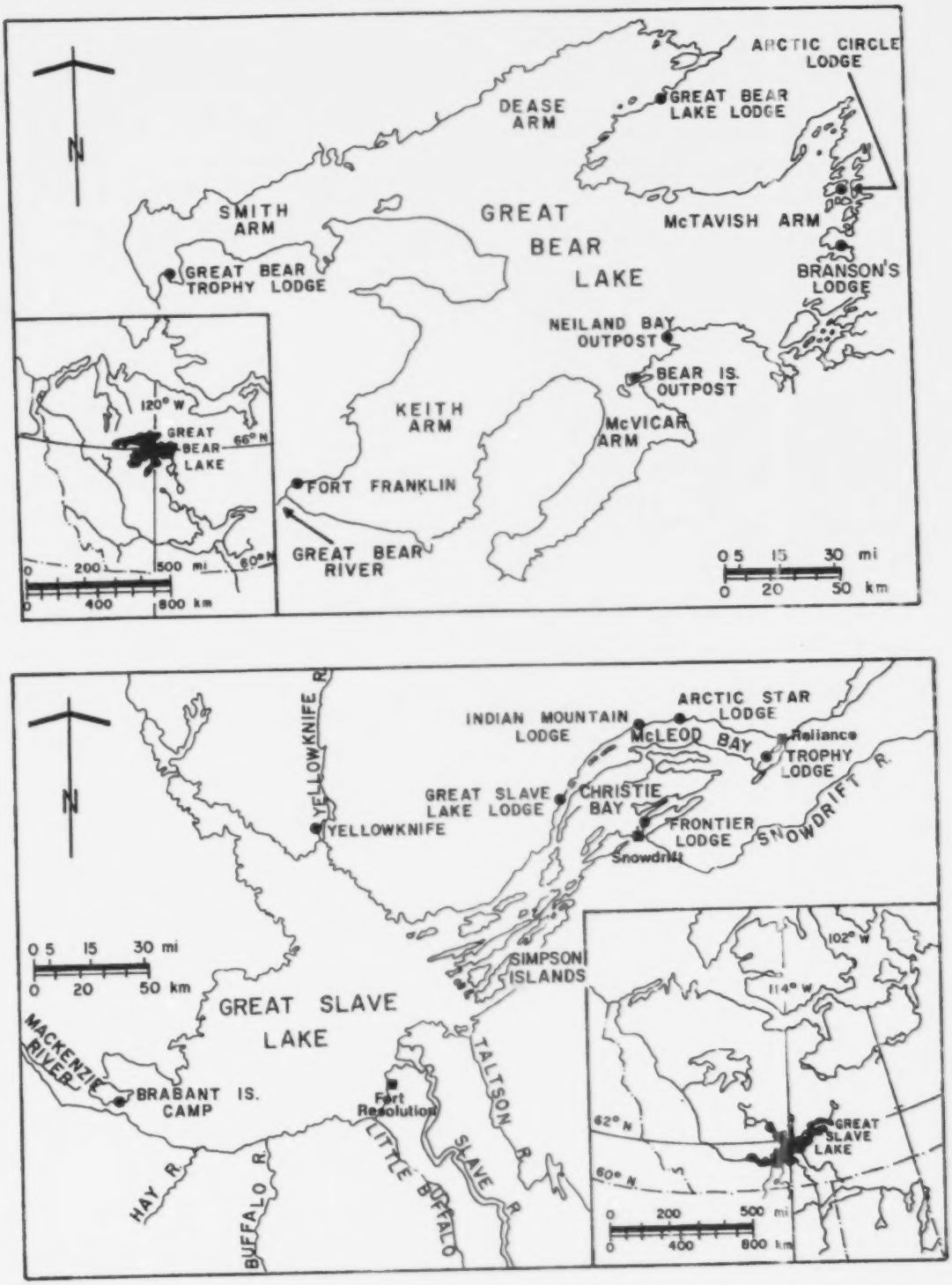

Fig. 1. Maps of Great Bear and Great Slave lakes showing the locations of sport fishing lodges and outpost camps.

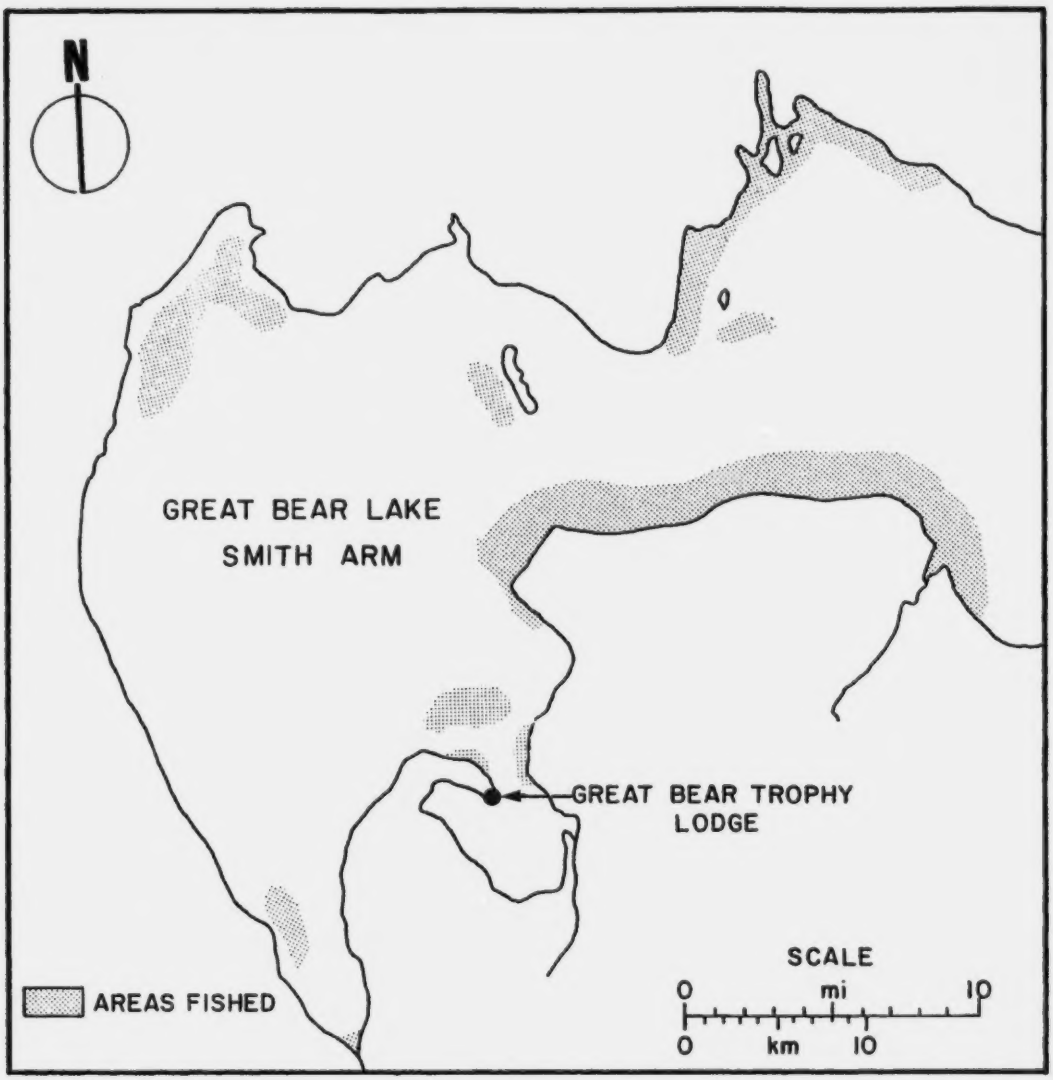

Fig. 2. Map of the Great Bear Trophy Lodge area, Great Bear Lake, showing the areas fished, 1980.

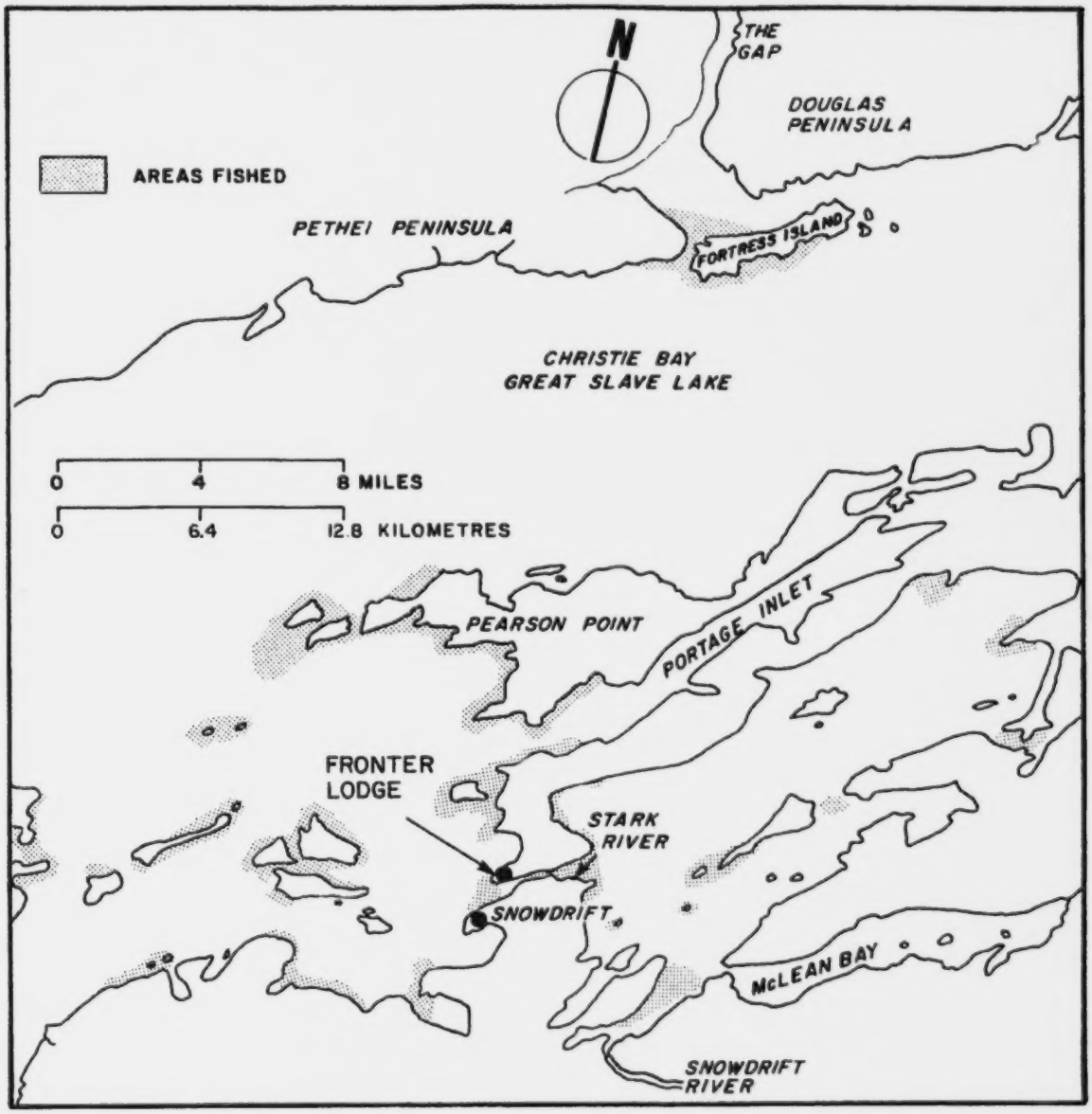

Fig. 3. Map of the Frontier Lodge area, Great Slave Lake, showing the areas fished, 1980.

Table 1. Summary of information on the operation of sport fishing lodges censused on Great Bear and Great Slave lakes, 1980.

Lodge	Guest Capacity	No. of Guests		Period of Operation		
		Calculated	Licence Sales	From	To	Days
GREAT BEAR LAKE						
Great Bear Trophy Lodge	50	331	387	June 30	August 30	62
GREAT SLAVE LAKE						
Frontier Fishing Lodge	24	227	248	June 20	September 10	82

Table 2. Summary of information on the creel census period at sport fishing lodges censused on Great Bear and Great Slave lakes, 1980.

Lodge	Period of Creel Census			Percent of Season Censused	Percent of Census Period Worked	No. of Angler Interviews
	From	To	Days			
GREAT BEAR LAKE						
Great Bear Trophy Lodge	July 2	August 23	52	84	80	1333
GREAT SLAVE LAKE						
Frontier Fishing Lodge	July 2	August 26	55	67	75	709

Table 3. Summary of information on the anglers' creel from lodges censused on Great Bear and Great Slave lakes, 1980.

Lodge	Species	No. Caught	No. Released	Retained		No. Sampled	Mean Wt.(kg)	Fish Retained Per Angler-Day	
				No.	%			No.	Wt.(kg)
GREAT BEAR LAKE									
Great Bear Trophy Lodge	Lake trout	7198	6023	523	7.3	149	2.44	0.39	0.95
	Arctic grayling	2121	1589	434	20.5	71	0.85	0.33	0.23
	Northern pike	2555	2384	126	4.9	5	-	0.09	-
GREAT SLAVE LAKE									
Frontier Fishing Lodge	Lake trout	3245	2391	334	10.3	222	4.36	0.47	2.05
	Arctic grayling	720	415	210	29.2	134	0.58	0.30	0.17
	Northern pike	1029	834	119	11.6	90	-	0.17	-

Table 4. Summary of information on the harvest of lake trout from lodges censused on Great Bear and Great Slave lakes, 1980.

Lodge		Lake Trout Caught	Lake Trout Released	Lake Trout Retained	Release Mortality	Shore Lunch	Total Number	Harvest Per Angler[a]
GREAT BEAR LAKE								
Great Bear Trophy Lodge	No.	10710	8962	778	749	970	2497	7.54
	Wt.(kg)	26132	21867	1898	1827	2367	6092	18.40
GREAT SLAVE LAKE								
Frontier Fishing Lodge	No.	6458	4758	664	452	1034	2150	9.47
	Wt.(kg)	28156	20744	2895	1970	4508	9374	41.29

[a] Based on calculated number of guests.

Table 5. Summary of information on the hours fished, angler success, and yield for lake trout from lodges censused on Great Bear and Great Slave lakes, total season, 1980.

Lodge	Hours Fished (Lake Trout) Total	Hours Fished (Lake Trout) Per Angler-Day	Lake Trout Caught Per Angler-Day	Lake Trout Caught Per Angler-Hour	Surface Area (ha) Available	Surface Area (ha) Utilized	Yield (kg/hectare) Area Available	Yield (kg/hectare) Area Utilized
GREAT BEAR LAKE								
Great Bear Trophy Lodge	7047	5.3	5.40	1.23	25464	16062	0.24	0.37
GREAT SLAVE LAKE								
Frontier Fishing Lodge	3636	5.1	4.83	0.94	14694	5121	0.64	1.83

Table 6. Harvest of lake trout from two sport fishing lodges on Great Bear and Great Slave lakes, 1971 to 1980.

Lodge	Year		Trout Caught	Trout Released	Trout Retained	Trout Mortality	Shore Lunches	Total Harvested	Harvest Per Angler	Remarks
Frontier Lodge	1971[a]	No.	5750	1378	3145	96	1227	4468	-	[a] Estimate based on average weight of fish retained 1972-74.
		Wt.	13281	3183	7264	222	2834	10320	53.7	
	1972[b]	No.	6686	3076	2377	215	1233	3825	-	[b] Recalculated using 1972 license sales (204) and 1973-74 lake trout retention.
		Wt.	16782	7721	5966	540	3095	9601	50.3	
	1973	No.	8039	3537	3394	248	1108	4750	-	-
		Wt.	15274	6720	6449	470	2105	9024	38.6	
	1974	No.	8171	4320	2536	302	1315	4153	-	-
		Wt.	20764	10930	6418	765	3326	10509	42.5	
	1975	No.	8481	5203	2125	149	1151	3425	12.3	-
		Wt.	27334	16772	6851	479	3711	11042	39.6	
	1980	No.	6458	4758	664	452	1034	2150	9.5	-
		Wt.	28156	20744	2895	1970	4508	9374	41.3	
Great Bear Trophy Lodge	1972[c]	No.						3709	-	[c] Estimate based on information supplied by the lodge and 1973 data.
		Wt.						12277	51.4	
	1973	No.	8236	4618	2739	232	879	3850	-	-
		Wt.	27261	15285	9967	1070	2909	13046	54.4	
	1976	No.	6049	3535	1479	247	1032	2758	8.8	-
		Wt.	20018	11704	4897	818	3417	9132	29.0	
	1980	No.	10710	8962	778	294	1034	2497	7.5	-
		Wt.	26132	21867	1898	734	4508	6092	18.4	

Table 7. Biological data by length interval for angled lake trout from Great Bear Trophy Lodge, Great Bear Lake, 1980.

Length Interval (mm)	MALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	FEMALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	COMBINED N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Female
300	1	2	302	300	-	1.09	0	-	-	-	-	-	-	-	1	1	302	300	-	1.09	0
350	1	2	352	425	-	0.97	0	-	-	-	-	-	-	-	1	1	352	425	-	0.97	0
450	-	-	-	-	-	-	-	1	2	478	900	-	0.82	0	1	1	478	900	-	0.82	100
500	3	6	538	1633	225	1.05	0	1	2	548	1500	-	0.91	0	4	4	541	1600	196	1.01	25
550	9	18	580	2081	304	1.06	67	7	12	585	2143	391	1.07	57	16	15	582	2108	334	1.06	44
600	18	37	626	2644	352	1.08	100	20	34	628	2755	365	1.11	100	38	36	627	2703	358	1.09	53
650	7	14	677	3443	486	1.11	100	15	26	676	3603	592	1.17	100	22	21	676	3552	554	1.15	68
700	4	8	710	3875	403	1.09	100	8	14	731	4313	485	1.11	100	12	11	724	4167	491	1.10	67
750	5	10	769	4560	702	1.00	100	3	5	769	4500	346	0.99	100	8	7	769	4538	563	0.99	38
800	1	2	804	6200	-	1.19	100	1	2	810	5900	-	1.11	100	2	2	807	6050	212	1.15	50
850	-	-	-	-	-	-	-	2	3	870	6500	141	0.99	100	2	2	870	6500	141	0.99	200
TOTAL	49						84	58						91	107						54
MEAN			632	2868	1139	1.07				664	3335	1152	1.10				650	3121	1164	1.09	

Table 8. Biological data by length interval for lake trout caught by experimental nets in the vicinity of Great Bear Lodge, Great Bear Lake, 1980.

Length Interval (mm)	MALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	FEMALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	COMBINED N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Female
150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	19	185	59	12	0.92	0
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	33	220	100	15	0.94	0
250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	12	269	192	30	0.99	0
400	2	14	438	835	191	1.00	0	1	50	421	700	-	0.94	0	3	7	432	790	156	0.98	33
450	1	7	461	1000	-	1.02	0	-	-	-	-	-	-	-	1	2	461	1000	-	1.02	0
500	3	21	532	1367	58	0.91	100	-	-	-	-	-	-	-	3	7	532	1367	58	0.91	0
550	4	29	576	1975	144	1.03	100	-	-	-	-	-	-	-	4	9	576	1975	144	1.03	0
600	4	29	629	3513	1910	1.47	100	1	50	633	2900	-	1.14	100	5	12	622	3390	1676	1.41	20
TOTAL	14						79	2						50	43						5
MEAN			551	2051	1389	1.13				527	1800	1556	1.04				341	817	1239	1.01	

Table 9. Biological data by length interval for lake trout from experimental nets and anglers' creel, Great Bear Lodge, Great Bear Lake, 1980.

Length Interval (mm)	MALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	FEMALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	COMBINED N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Female
150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	174	40	-	0.76	0
175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5	187	61	10	0.94	0
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	6	212	92	8	0.98	0
225	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3	234	114	13	0.89	0
250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	264	180	16	0.99	0
275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	291	240	-	0.97	0
300	1	2	302	300	-	1.09	0	-	-	-	-	-	-	-	1	1	302	300	-	1.09	0
350	1	2	352	425	-	0.97	0	-	-	-	-	-	-	-	1	1	352	425	-	0.97	0
400	-	-	-	-	-	-	-	1	2	421	700	-	0.94	0	1	1	421	700	-	0.94	100
425	2	3	438	835	191	1.00	0	-	-	-	-	-	-	-	2	1	438	835	191	1.00	0
450	1	2	461	1000	-	1.02	0	-	-	-	-	-	-	-	1	1	461	1000	-	1.02	0
475	-	-	-	-	-	-	-	1	2	478	900	-	0.82	0	1	1	478	9900	-	0.82	100
525	6	10	535	1500	207	0.98	50	1	2	548	1500	-	0.91	0	7	5	537	1500	189	0.97	17
550	5	8	565	1840	207	1.02	80	1	2	554	1500	-	0.88	0	6	4	563	1783	232	1.00	18
575	8	13	588	2178	209	1.07	75	6	10	590	2250	295	1.10	67	14	9	589	2209	242	1.08	43
600	8	13	610	2350	177	1.04	100	9	15	615	2611	348	1.12	100	17	11	613	2488	304	1.08	53
625	13	21	634	2808	299	1.10	100	12	20	638	2875	333	1.10	100	25	17	636	2840	311	1.10	48
650	3	5	666	3033	404	1.03	100	7	12	662	3364	489	1.16	100	10	7	663	3265	470	1.12	50
675	4	6	686	3750	265	1.16	100	8	13	687	3813	624	1.17	100	12	8	687	3792	518	1.17	67
700	3	5	703	3933	473	1.13	100	3	5	715	4333	208	1.19	100	6	4	709	4133	393	1.16	50
725	1	2	728	3700	-	0.96	100	5	8	740	4300	624	1.06	100	6	4	738	4200	610	1.04	83
750	4	6	764	4325	538	0.97	100	2	3	762	4300	0	0.97	100	6	4	764	4317	417	0.97	33
775	1	2	790	5500	-	1.12	100	1	2	782	4900	-	1.02	100	2	1	786	5200	424	1.07	50
800	1	2	804	6200	-	1.19	100	1	2	810	5900	-	1.11	100	2	1	807	6050	212	1.15	50
850	-	-	-	-	-	-	-	1	2	850	6600	-	1.07	100	1	1	850	6600	-	1.07	100
875	-	-	-	-	-	-	-	1	2	890	6400	-	0.91	100	1	1	890	6400	-	0.91	100
TOTAL	62						82	60						90	149						40
MEAN			614	2628	1152	1.06				660	3284	1183	1.10				561	2435	1550	1.05	

Table 10. Biological data by length interval for angled lake trout from Frontier Lodge, Great Slave Lake, 1980.

Length Interval (mm)	MALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	FEMALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	COMBINED N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Female
450	4	4	464	1150	100	1.15	0	-	-	-	-	-	-	-	4	2	464	1150	100	1.15	0
475	5	5	484	1460	114	1.29	20	4	3	491	1575	126	1.33	50	9	4	487	1511	127	1.31	44
500	6	6	509	1617	202	1.23	67	5	4	509	1680	249	1.27	60	11	5	509	1645	215	1.25	45
525	12	13	536	2046	206	1.33	58	7	6	541	2100	260	1.33	43	19	9	538	2066	222	1.33	37
550	6	6	569	2310	281	1.25	83	6	5	562	2283	248	1.29	17	12	5	566	2297	253	1.27	50
575	7	7	579	2507	459	1.29	71	8	6	587	2869	375	1.42	88	15	7	583	2700	447	1.36	53
600	6	6	617	3492	827	1.48	83	12	10	613	3333	453	1.45	92	18	8	614	3386	583	1.46	67
625	10	11	633	3850	226	1.52	100	9	7	636	3967	477	1.54	100	19	9	635	3905	361	1.53	47
650	8	9	660	4250	411	1.48	100	15	12	659	4327	522	1.51	100	23	10	660	4300	478	1.50	65
675	6	6	684	4817	640	1.50	100	12	10	688	5121	768	1.57	100	18	8	687	5019	724	1.55	67
700	6	6	711	5033	463	1.40	100	15	12	713	5547	675	1.53	100	21	9	712	5400	655	1.49	71
725	8	9	739	6444	383	1.60	100	13	10	735	6588	446	1.66	100	21	9	737	6533	420	1.64	62
750	4	4	771	7250	1535	1.58	100	8	6	752	6969	404	1.58	100	12	5	755	7063	875	1.58	67
775	4	4	793	8100	627	1.62	100	5	4	781	7620	712	1.60	100	10	5	787	7790	657	1.60	50
800	-	-	-	-	-	-	-	3	2	816	7667	777	1.42	100	4	2	814	7650	635	1.42	75
825	1	1	848	8400	-	1.38	100	3	2	837	10417	765	1.78	100	4	2	840	9913	1186	1.68	75
850	1	1	851	7600	-	1.23	100	-	-	-	-	-	-	-	1	0	851	7600	-	1.23	0
875	-	-	-	-	-	-	-	1	1	885	9600	-	1.38	100	1	0	885	9600	-	1.38	100
TOTAL	94						80	126						88	222						57
MEAN			625	3820	2065	1.41				664	4719	2089	1.50				649	4364	2133	1.46	

Table 11. Biological data by length interval for lake trout caught by experimental nets in the vicinity of Frontier Lodge, Great Slave Lake, 1980.

Length Interval (mm)	MALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	FEMALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	COMBINED N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Female
150	-	-	-	-	-	-	-	1	4	167	50	-	1.07	0	2	3	165	50	0	1.11	50
175	1	3	175	75	-	1.40	0	1	4	180	75	-	1.29	0	6	8	180	64	12	1.11	17
200	4	11	218	109	12	1.06	0	2	9	208	113	18	1.26	0	10	14	215	105	12	1.06	20
225	3	8	236	125	25	0.95	33	1	4	237	175	-	1.31	0	6	8	235	129	29	0.99	17
250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	250	150	-	0.96	0
275	1	3	298	250	-	0.94	0	-	-	-	-	-	-	-	1	1	298	250	-	0.94	0
300	4	11	313	328	33	1.07	0	2	9	311	300	0	1.00	0	6	8	312	318	29	1.04	33
325	-	-	-	-	-	-	-	2	9	338	363	18	0.94	0	4	5	339	400	54	1.03	50
350	1	3	352	500	-	1.15	0	1	4	372	550	-	1.07	0	2	3	362	525	35	1.11	50
375	2	6	392	675	71	1.12	0	-	-	-	-	-	-	-	2	3	392	675	71	1.12	0
400	4	11	415	819	63	1.14	25	1	4	406	770	-	1.15	0	5	7	413	809	58	1.14	20
425	2	6	436	975	35	1.18	50	5	22	441	1040	123	1.21	20	7	10	440	1021	106	1.20	71
450	2	6	461	1088	194	1.11	0	1	4	451	1075	-	1.17	0	3	4	458	1083	138	1.13	33
475	1	3	498	1500	0	1.21	0	2	9	497	1613	124	1.32	0	3	4	497	1575	109	1.28	67
500	3	8	509	1750	278	1.32	33	1	4	504	1500	-	1.17	0	4	5	508	1688	259	1.29	25
525	4	11	532	1675	104	1.12	0	1	4	544	2100	-	1.30	100	5	7	534	1760	210	1.15	20
550	3	8	555	2367	115	1.38	67	1	4	563	2800	-	1.57	100	4	6	557	2475	236	1.43	25
600	-	-	-	-	-	-	-	1	4	615	3600	-	1.55	100	1	1	615	3600	-	1.55	100
625	1	3	630	4000	-	1.60	100	-	-	-	-	-	-	-	1	1	630	4000	-	1.60	0
TOTAL	36						19	23						17	73						32
MEAN			398	1007	894	1.16				389	986	913	1.21				362	833	873	1.14	

Table 12. Biological data by length interval for lake trout caught by experimental nets in the vicinity of Snowdrift, Great Slave Lake, Cosmos Study, 1978.

Length Interval (mm)	MALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	FEMALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	COMBINED N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Female
275	-	-	-	-	-	-	-	1	1	290	250	-	1.03	0	1	1	290	250	-	1.03	100
300	1	1	303	300	-	1.08	0	1	1	321	350	-	1.06	0	2	1	312	325	35	1.07	50
325	2	2	344	475	35	1.17	0	-	-	-	-	-	-	-	2	1	344	475	35	1.17	0
350	1	1	362	575	-	1.21	0	4	4	360	563	111	1.20	0	5	3	360	565	96	1.20	80
375	4	5	390	650	82	1.10	0	3	3	388	583	76	1.00	33	10	5	390	620	82	1.04	30
400	8	10	412	803	122	1.14	0	2	2	419	800	71	1.09	0	12	6	412	789	105	1.13	17
425	9	11	434	950	120	1.16	0	5	5	434	1020	160	1.24	0	14	7	434	975	134	1.19	36
450	8	10	464	1156	105	1.15	25	6	6	460	1200	138	1.24	33	14	7	462	1175	117	1.19	43
475	5	6	488	1460	96	1.25	0	5	5	481	1280	125	1.15	0	11	6	486	1373	135	1.20	45
500	8	10	513	1669	92	1.24	13	9	9	515	1706	254	1.24	33	17	9	514	1688	191	1.24	53
525	3	4	533	2000	218	1.33	67	5	5	537	2020	115	1.31	100	9	5	536	2000	141	1.30	56
550	8	10	563	2369	158	1.33	100	8	8	561	2113	233	1.19	63	16	8	562	2241	233	1.26	50
575	8	10	591	2731	377	1.33	100	10	10	589	2700	322	1.32	60	18	9	590	2714	337	1.32	56
600	6	7	611	2883	129	1.26	100	5	5	611	3150	141	1.38	100	11	6	611	3005	189	1.32	45
625	5	6	635	3340	342	1.30	100	12	11	637	3458	158	1.34	83	17	9	637	3424	222	1.33	71
650	2	2	654	3600	212	1.29	100	5	5	667	3830	275	1.29	100	7	4	663	3764	266	1.29	71
675	-	-	-	-	-	-	-	6	6	691	4575	316	1.38	100	6	3	691	4575	316	1.38	100
700	1	1	707	4800	-	1.36	100	3	3	705	4533	362	1.29	100	4	2	706	4600	324	1.31	75
725	1	1	745	6450	-	1.56	100	4	4	737	5088	170	1.28	100	5	3	738	5360	627	1.33	80
750	-	-	-	-	-	-	-	6	6	766	6192	707	1.38	100	6	3	766	6192	707	1.38	100
775	-	-	-	-	-	-	-	3	3	786	6317	831	1.30	100	3	2	785	6317	831	1.30	100
800	-	-	-	-	-	-	-	1	1	811	6600	-	1.24	100	1	1	811	6600	-	1.24	100
825	1	1	843	9500	-	1.59	100	1	1	844	8300	-	1.38	100	2	1	844	8900	849	1.48	50
850	1	1	860	8800	-	1.38	100	-	-	-	-	-	-	-	1	1	860	8800	-	1.38	0
TOTAL	82						46	105						63	194						54
MEAN			518	2035	1582	1.24				580	2886	1790	1.27				549	2456	1745	1.25	

Table 13. Biological data by length interval for lake trout caught by experimental nets in the vicinity of Snowdrift and Frontier Lodge, Great Slave Lake, 1978.

Length Interval (mm)	MALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	FEMALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	COMBINED N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Female
150	1	1	175	75	-	1.40	0	2	2	174	63	18	1.18	0	8	3	176	61	12	1.11	25
200	7	6	225	116	19	1.01	14	3	2	217	133	38	1.28	0	16	6	223	114	23	1.03	19
250	1	1	298	250	-	0.94	0	1	1	290	250	-	1.03	0	3	1	279	217	58	0.98	33
300	7	6	320	366	80	1.10	0	5	4	324	335	34	0.99	0	14	5	324	365	68	1.06	36
350	8	7	382	628	85	1.12	0	8	6	372	569	84	1.11	13	19	7	379	601	87	1.10	42
400	23	19	423	878	127	1.15	9	13	10	432	975	159	1.20	8	38	14	425	903	148	1.17	34
450	16	14	473	1264	192	1.18	13	14	11	472	1279	191	1.21	14	31	12	473	1275	187	1.20	45
500	18	15	520	1739	188	1.24	22	16	13	523	1816	267	1.26	56	35	13	522	1779	226	1.25	46
550	19	16	573	2521	317	1.34	95	19	15	576	2458	406	1.28	63	38	14	575	2489	361	1.31	50
600	12	10	623	3167	413	1.31	100	18	14	629	3381	209	1.36	89	30	11	626	3295	319	1.34	60
650	2	2	654	3600	212	1.29	100	11	9	680	4236	481	1.34	100	13	5	676	4138	504	1.33	85
700	2	2	726	5625	1167	1.46	100	7	5	723	4850	382	1.28	100	9	3	724	5022	630	1.32	78
750	-	-	-	-	-	-	-	9	7	772	6233	699	1.35	100	9	3	772	6233	699	1.35	100
800	1	1	843	9500	-	1.59	100	2	2	828	7450	1202	1.31	100	3	1	833	8133	1457	1.40	67
850	1	1	860	8800	-	1.38	100	-	-	-	-	-	-	-	1	0	860	8800	-	1.38	0
TOTAL	118						38	128						55	267						48
MEAN			482	1721	1482	1.22				586	2545	1818	1.26				498	2012	1715	1.22	

Table 14. Biological data by length interval for lake trout from experimental nets and anglers' creel in the vicinity of Snowdrift and Frontier Lodge, Great Slave Lake, 1978 and 1980.

Length Interval (mm)	MALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	FEMALES N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Mat.	COMBINED N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Female
150	1	0	175	75	-	1.40	0	2	1	174	63	18	1.18	0	8	2	176	61	12	1.11	25
200	7	3	225	116	19	1.01	14	3	1	217	133	38	1.28	0	16	3	223	114	23	1.03	19
250	1	0	298	250	-	0.94	0	1	0	290	250	-	1.03	0	3	1	279	217	58	0.98	33
300	7	3	320	366	80	1.10	0	5	2	324	335	34	0.99	0	14	3	324	365	68	1.06	36
350	8	4	382	628	85	1.12	0	8	3	372	569	84	1.11	13	19	4	379	601	87	1.10	42
400	23	11	423	878	127	1.15	9	13	5	432	975	159	1.20	8	38	8	425	903	148	1.17	34
450	25	12	474	1285	190	1.20	12	18	7	476	1344	216	1.24	22	44	9	475	1312	199	1.21	41
500	36	17	523	1821	254	1.27	42	28	11	525	1863	293	1.28	54	65	13	524	1840	268	1.27	43
550	32	15	574	2478	347	1.31	88	33	13	576	2526	420	1.32	61	65	13	575	2502	384	1.31	51
600	28	13	625	3480	555	1.42	96	39	15	626	3501	440	1.43	92	67	14	625	3493	488	1.43	58
650	16	8	668	4381	620	1.46	100	38	15	674	4551	704	1.48	100	54	11	673	4501	679	1.47	70
700	16	8	727	5813	831	1.51	100	35	14	723	5794	858	1.53	100	51	10	724	5800	841	1.52	69
750	8	4	782	7675	1177	1.60	100	22	9	771	6816	803	1.49	100	31	6	774	7056	961	1.52	71
800	2	1	846	8950	778	1.48	100	8	3	827	8644	1646	1.52	100	11	2	828	8605	1443	1.51	73
850	2	1	856	8200	849	1.31	100	1	0	885	9600	-	1.38	100	3	1	865	8667	1007	1.33	33
TOTAL	212						57	254						71	489						52
MEAN			545	2652	2047	1.30				605	3624	2236	1.38				566	3080	2244	1.33	

Table 15. Biological data by age group for angled lake trout from Great Bear Trophy Lodge, Great Bear Lake, 1980.

	MALES								FEMALES								COMBINED						
Age (Yr)	N	%	Fork Length (mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	N	%	Fork Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	N	%	Mean Fork Length(mm)	Weight(g) Mean	SD	K	% Female
9	1	2	302	-	300	-	1.09	0	-	-	-	-	-	-	-	-	1	1	302	300	-	1.09	0
12	1	2	352	-	425	-	0.97	0	-	-	-	-	-	-	-	-	1	1	352	425	-	0.97	0
14	1	2	528	-	1400	-	0.95	0	-	-	-	-	-	-	-	-	1	1	528	1400	-	0.95	0
15	1	2	546	-	1850	-	1.14	0	1	2	554	-	1500	-	0.88	0	2	2	550	1675	247	1.01	50
16	2	4	546	8	1575	106	0.97	50	-	-	-	-	-	-	-	-	2	2	546	1575	106	0.97	0
17	1	2	583	-	1900	-	0.96	100	5	9	576	74	1900	809	0.94	40	6	6	577	1900	724	0.94	83
18	5	10	590	15	2140	89	1.04	80	5	9	606	25	2420	335	1.08	100	10	10	598	2280	274	1.06	50
19	4	8	595	23	2175	189	1.03	75	5	9	617	21	2760	351	1.17	80	9	9	607	2500	412	1.11	56
20	5	10	614	19	2580	217	1.11	80	7	13	631	20	2836	433	1.13	100	12	12	624	2729	370	1.12	58
21	4	8	633	25	2581	90	1.03	100	4	7	650	23	3425	450	1.25	100	8	8	641	3003	542	1.14	50
22	5	10	640	21	2800	354	1.07	100	5	9	662	39	3000	510	1.03	100	10	10	651	2900	427	1.05	50
23	5	10	686	32	3460	513	1.07	100	6	11	673	38	3700	1101	1.19	100	11	11	679	3591	853	1.13	55
24	2	4	699	5	3650	354	1.07	100	7	13	689	34	3729	650	1.13	100	9	9	691	3711	578	1.12	78
25	-	-	-	-	-	-	-	-	1	2	743	-	4200	-	1.02	100	1	1	743	4200	-	1.02	100
26	4	8	682	60	3475	222	1.12	100	3	5	700	68	3833	896	1.11	100	7	7	690	3629	574	1.12	43
27	2	4	653	34	3350	919	1.19	100	1	2	694	-	3600	-	1.08	100	3	3	667	3433	666	1.15	33
28	1	2	770	-	4400	-	0.96	100	3	5	757	22	4667	681	1.08	100	4	4	760	4600	572	1.05	75
29	3	6	771	18	4933	551	1.07	100	-	-	-	-	-	-	-	-	3	3	771	4933	551	1.07	0
30	1	2	804	-	6200	-	1.19	100	-	-	-	-	-	-	-	-	1	1	804	6200	-	1.19	0
31	-	-	-	-	-	-	-	-	1	2	810	-	5900	-	1.11	100	1	1	810	5900	-	1.11	100
34	-	-	-	-	-	-	-	-	1	2	850	-	6600	-	1.07	100	1	1	850	6600	-	1.07	100
38	-	-	-	-	-	-	-	-	1	2	890	-	6400	-	0.91	100	1	1	890	6400	-	0.91	100
TOTAL	48							83	56							91	104						54
MEAN			631	93	2839	1[illegible]	1.06				662	73	3321	1165	1.10				648	3098	1169	1.09	
MEAN AGE	21.4								22.2								21.8						

Table 16. Biological data by age group for lake trout caught by experimental nets in the vicinity of Great Bear Lodge, Great Bear Lake, 1980 . . . .

	MALES								FEMALES								COMBINED						
Age (yr)	N	%	Fork Length (mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	N	%	Fork Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	N	%	Mean Fork Length(mm)	Weight(g) Mean	SD	K	% Female
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	174	40	-	0.76	0
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	16	195	72	16	0.96	0
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	26	209	89	21	0.96	0
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	12	249	138	32	0.88	0
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	7	273	207	31	1.03	0
10	-	-	-	-	-	-	-	-	1	50	421	-	700	-	0.94	0	1	2	421	700	-	0.94	100
11	1	7	432	-	970	-	1.20	0	-	-	-	-	-	-	-	-	1	2	432	970	-	1.20	0
13	2	14	452	13	850	212	0.91	0	-	-	-	-	-	-	-	-	2	5	452	850	212	0.91	0
16	4	29	540	16	1475	222	0.93	100	-	-	-	-	-	-	-	-	4	9	540	1475	222	0.93	0
18	1	7	624	-	2700	-	1.11	100	-	-	-	-	-	-	-	-	1	2	624	2700	-	1.11	0
19	3	21	597	22	3483	2485	1.57	100	-	-	-	-	-	-	-	-	3	7	597	3483	2485	1.57	0
20	2	14	598	39	2400	566	1.11	100	-	-	-	-	-	-	-	-	2	5	598	2400	566	1.11	0
21	-	-	-	-	-	-	-	-	1	50	633	-	2900	-	1.14	100	1	2	633	2900	-	1.14	100
24	1	7	610	-	2200	-	0.97	100	-	-	-	-	-	-	-	-	1	2	610	2200	-	0.97	0
TOTAL	14							79	2							50	43						5
MEAN			551	66	2051	1389	1.13				527	150	1800	1556	1.04				341	817	1239	1.01	
MEAN AGE	17.1								15.5								10.1						

Table 17. Biological data by age group for lake trout from experimental nets and anglers' creel, Great Bear Lodge, Great Bear Lake, 1980.

Age (yr)	MALES N	%	Fork Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	FEMALES N	%	Fork Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	COMBINED N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Female
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	174	40	-	0.76	0
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5	195	72	16	0.96	0
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	8	209	89	21	0.96	0
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3	249	138	32	0.88	0
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	273	207	31	1.03	0
9	1	2	302	-	300	-	1.09	0	-	-	-	-	-	-	-	-	1	1	302	300	-	1.09	0
10	-	-	-	-	-	-	-	-	1	2	421	-	700	-	0.94	0	1	1	421	700	-	0.94	100
11	1	2	432	-	970	-	1.20	0	-	-	-	-	-	-	-	-	1	1	432	970	-	1.20	0
12	1	2	352	-	425	-	0.97	0	-	-	-	-	-	-	-	-	1	1	352	425	-	0.97	0
13	2	3	452	13	850	212	0.91	0	1	2	478	-	900	-	0.82	0	3	2	461	867	153	0.88	33
14	1	2	528	-	1400	-	0.95	0	-	-	-	-	-	-	-	-	1	1	528	1400	-	0.95	0
15	1	2	546	-	1850	-	1.14	0	1	2	554	-	1500	-	0.88	0	2	1	550	1675	247	1.01	50
16	6	10	542	13	1508	186	0.94	83	-	-	-	-	-	-	-	-	6	4	542	1508	186	0.94	0
17	1	2	583	-	1900	-	0.96	100	4	7	601	57	2150	676	0.97	50	5	3	597	2100	596	0.97	80
18	6	10	596	19	2233	242	1.05	83	5	9	606	25	2420	335	1.08	100	11	8	600	2318	289	1.07	45
19	6	10	592	20	2133	172	1.03	83	5	9	617	21	2760	351	1.17	80	11	8	603	2418	414	1.10	45
20	7	11	609	23	2529	304	1.11	86	7	12	631	20	2836	433	1.13	100	14	10	620	2682	393	1.12	50
21	4	7	633	25	2581	90	1.03	100	5	9	646	21	3320	455	1.23	100	9	6	640	2992	508	1.14	56
22	5	8	640	21	2800	354	1.07	100	5	9	662	39	3000	510	1.03	100	10	7	651	2900	427	1.05	50
23	5	8	686	32	3460	513	1.07	100	6	10	673	38	3700	1101	1.19	100	11	8	679	3591	853	1.13	55
24	3	5	669	51	3167	874	1.04	100	7	12	689	34	3729	650	1.13	100	10	7	683	3560	724	1.11	70
25	-	-	-	-	-	-	-	-	1	2	743	-	4200	-	1.02	100	1	1	743	4200	-	1.02	100
26	4	7	682	60	3475	222	1.12	100	3	5	700	68	3833	896	1.11	100	7	5	690	3629	574	1.12	43
27	2	3	663	34	3350	919	1.19	100	1	2	694	-	3600	-	1.08	100	3	2	667	3433	666	1.15	33
28	1	2	770	-	4400	-	0.96	100	3	5	757	22	4867	681	1.08	100	4	3	780	4800	572	1.05	75
29	3	5	771	18	4933	551	1.07	100	-	-	-	-	-	-	-	-	3	2	771	4933	551	1.07	0
30	1	2	804	-	6200	-	1.19	100	-	-	-	-	-	-	-	-	1	1	804	6200	-	1.19	0
31	-	-	-	-	-	-	-	-	1	2	810	-	5900	-	1.11	100	1	1	810	5900	-	1.11	100
34	-	-	-	-	-	-	-	-	1	2	850	-	6600	-	1.07	100	1	1	850	6600	-	1.07	100
38	-	-	-	-	-	-	-	-	1	2	890	-	6400	-	0.91	100	1	1	890	6400	-	0.91	100
TOTAL	61							82	58							90	146						40
MEAN			613	94	2600	1141	1.05				658	79	3258	1196	1.10				558	2404	1549	1.05	
MEAN AGE	20.4								21.9								18.3						

Table 18. Biological data by age group for angled lake trout from Frontier Lodge, Great Slave Lake, 1980.

Age (yr)	MALES N	%	Fork Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	FEMALES N	%	Fork Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	COMBINED N	%	Mean Fork Length (mm)	Weight(g) Mean	SD	K	% Female
9	-	-	-	-	-	-	-	-	1	1	491	-	1600	-	1.35	100	1	0	491	1600	-	1.35	100
10	5	5	493	26	1450	260	1.20	40	3	2	501	10	1633	115	1.30	67	8	4	496	1519	227	1.24	38
11	7	7	504	33	1614	380	1.25	57	2	2	525	3	1975	177	1.37	50	9	4	508	1694	371	1.27	22
12	11	12	515	30	1836	388	1.32	45	5	4	528	36	1890	365	1.27	40	16	7	519	1853	369	1.31	31
13	9	10	557	27	2096	329	1.21	56	8	6	543	28	1913	270	1.19	25	17	8	551	2009	308	1.20	47
14	4	4	587	31	2388	633	1.16	50	6	5	587	21	2833	320	1.40	83	10	5	587	2655	494	1.31	60
15	8	9	583	27	2994	826	1.49	88	10	8	591	27	3215	668	1.54	90	18	8	588	3117	728	1.52	56
16	3	3	628	8	3900	265	1.58	100	10	8	618	21	3490	651	1.47	80	13	6	620	3585	602	1.49	77
17	11	12	645	17	4091	476	1.52	100	7	6	639	12	3979	388	1.53	100	18	8	643	4047	412	1.52	39
18	5	5	653	19	4030	338	1.44	100	6	5	654	5	3950	501	1.41	100	11	5	654	3986	416	1.43	55
19	3	3	673	23	4383	548	1.44	100	6	5	663	15	4125	621	1.42	100	9	4	666	4211	577	1.42	67
20	3	3	672	37	4333	603	1.47	100	5	4	675	12	4970	475	1.61	100	8	4	674	4731	584	1.54	63
21	1	1	710	-	4400	-	1.23	100	7	6	702	13	5057	665	1.47	100	8	4	703	4975	658	1.44	88
22	1	1	713	-	4700	-	1.30	100	9	7	703	19	5489	736	1.58	100	10	5	704	5410	737	1.55	90
23	5	5	710	22	5660	850	1.58	100	5	4	722	19	6300	400	1.68	100	10	5	716	5980	711	1.63	50
24	2	2	731	1	6600	424	1.69	100	10	8	722	16	6255	498	1.66	100	12	5	723	6313	487	1.67	83
25	2	2	724	13	5900	566	1.55	100	3	2	725	21	5933	723	1.55	100	5	2	725	5920	585	1.55	60
26	3	3	742	2	6117	247	1.50	100	5	4	758	10	6980	497	1.61	100	8	4	752	6656	598	1.57	63
27	1	1	774	-	6500	-	1.40	100	6	5	755	21	6917	722	1.61	100	7	3	757	6857	678	1.58	86
28	4	4	772	21	7775	1253	1.69	100	4	3	779	8	7613	895	1.61	100	10	5	780	7855	897	1.61	40
29	4	4	798	37	7500	1146	1.48	100	1	1	803	-	7900	-	1.53	100	5	2	799	7580	1008	1.49	20
30	1	1	798	-	8200	-	1.61	100	4	3	816	25	9225	1965	1.68	100	5	2	813	9020	1763	1.67	80
31	-	-	-	-	-	-	-	-	1	1	824	-	6800	-	1.22	100	1	0	824	6800	-	1.22	100
32	-	-	-	-	-	-	-	-	2	2	866	27	9575	35	1.48	100	2	1	866	9575	35	1.48	100
33	1	1	848	-	8400	-	1.38	100	-	-	-	-	-	-	-	-	1	0	848	8400	-	1.38	0
TOTAL	94							80	126							88	222						57
MEAN			625	98	3820	2065	1.41				664	88	4719	2089	1.50				649	4364	2133	1.46	
MEAN AGE	17.5								19.7								18.9						

Table 19. Biological data by age group for lake trout caught by experimental nets in the vicinity of Frontier Lodge, Great Slave Lake, 1980.

	MALES								FEMALES								COMBINED						
			Fork Length(mm)		Weight(g)			%			Fork Length(mm)		Weight(g)			%			Mean Fork Length	Weight(g)			%
Age (yr)	N	%	Mean	SD	Mean	SD	K	Mat.	N	%	Mean	SD	Mean	SD	K	Mat.	N	%	(mm)	Mean	SD	K	Female
3	1	3	175	-	75	-	1.40	0	3	13	185	21	75	25	1.16	0	9	13	188	73	25	1.09	33
4	6	17	223	11	114	20	1.03	0	2	9	222	21	150	35	1.38	0	12	17	224	118	27	1.05	17
5	5	14	293	30	262	82	1.00	20	1	4	312	-	300	-	0.99	0	8	11	277	226	100	0.99	13
6	1	3	324	-	375	-	1.10	0	2	9	322	16	325	35	0.98	0	3	4	322	342	38	1.02	67
7	2	6	369	24	563	88	1.12	0	1	4	342	-	375	-	0.94	0	4	6	356	494	103	1.08	25
8	3	8	409	13	783	52	1.15	0	2	9	389	24	660	156	1.11	0	5	7	401	734	109	1.13	40
9	4	11	426	13	900	108	1.16	50	3	13	443	2	1050	156	1.21	33	7	10	433	964	143	1.18	43
10	1	3	462	-	950	-	0.96	0	1	4	440	-	950	-	1.12	0	3	4	412	767	318	1.05	33
11	0	0	-	-	-	-	-	-	2	9	445	9	1088	18	1.24	0	2	3	445	1088	18	1.24	100
12	3	8	508	15	1533	104	1.17	0	3	13	499	5	1575	109	1.27	0	6	8	503	1554	98	1.22	50
13	5	14	511	31	1705	290	1.27	20	1	4	544	-	2100	-	1.30	100	6	8	516	1771	305	1.28	17
14	2	6	543	13	2025	672	1.26	50	-	-	-	-	-	-	-	-	2	3	543	2025	672	1.26	0
15	2	6	557	10	2300	0	1.33	50	1	4	563	-	2800	-	1.57	100	3	4	559	2467	289	1.41	33
16	-	-	-	-	-	-	-	-	1	4	615	-	3600	-	1.55	100	1	1	615	3600	-	1.55	100
17	1	3	630	-	4000	-	1.60	100	-	-	-	-	-	-	-	-	1	1	630	4000	-	1.60	0
TOTAL	36							19	23							17	72						32
MEAN			398	126	1007	894	1.16				389	128	986	913	1.21				365	844	875	1.14	
MEAN AGE	8.8								8.5								7.9						

Table 20. Biological data by age group for lake trout caught by experimental nets in the vicinity of Snowdrift, Great Slave Lake, Cosmos Study, 1978.

	MALES								FEMALES								COMBINED						
			Fork Length(mm)		Weight(g)			%			Fork Length(mm)		Weight(g)			%			Mean Fork Length	Weight(g)			%
Age (yr)	N	%	Mean	SD	Mean	SD	K	Mat.	N	%	Mean	SD	Mean	SD	K	Mat.	N	%	(mm)	Mean	SD	K	Female
4	-	-	-	-	-	-	-	-	1	1	290	-	250	-	1.03	0	1	1	290	250	-	1.03	100
5	1	1	303	-	300	-	1.08	0	-	-	-	-	-	-	-	-	1	1	303	300	-	1.08	0
6	-	-	-	-	-	-	-	-	1	1	321	-	350	-	1.06	0	1	1	321	350	-	1.06	100
7	2	2	344	1	475	35	1.17	0	-	-	-	-	-	-	-	-	2	1	344	475	35	1.17	0
8	6	7	400	25	766	194	1.18	0	8	8	378	28	600	152	1.10	17	15	8	391	690	167	1.13	40
9	8	10	417	20	813	153	1.12	0	8	8	415	33	875	250	1.20	0	16	8	412	806	204	1.13	38
10	12	15	438	21	975	163	1.16	0	6	6	449	15	1125	209	1.23	33	18	9	441	1025	188	1.18	33
11	6	7	469	16	1225	216	1.18	33	4	4	470	16	1275	104	1.24	0	10	5	469	1245	174	1.20	40
12	9	11	505	10	1617	103	1.26	11	9	9	502	18	1522	327	1.19	22	19	10	503	1561	237	1.22	47
13	4	5	536	24	1950	334	1.27	50	5	5	526	7	1900	298	1.30	60	10	5	531	1920	278	1.28	50
14	7	9	552	12	2200	247	1.30	86	10	10	557	17	2165	332	1.24	80	17	9	555	2179	292	1.27	59
15	14	17	593	14	2732	294	1.31	100	9	9	583	16	2544	443	1.28	67	23	12	589	2659	362	1.30	39
16	4	5	624	12	3238	340	1.33	100	9	9	610	16	3050	302	1.34	78	13	7	615	3108	313	1.34	69
17	2	2	642	16	3225	318	1.22	100	8	8	639	6	3525	144	1.35	75	10	5	639	3465	208	1.33	80
18	2	2	646	12	3400	495	1.26	100	2	2	639	5	3400	0	1.31	100	4	2	642	3400	286	1.28	50
19	1	1	643	-	3700	-	1.39	100	2	2	667	3	3675	318	1.24	100	3	2	659	3683	225	1.29	67
20	-	-	-	-	-	-	-	-	3	3	666	3	3933	247	1.33	100	3	2	666	3933	247	1.33	100
21	-	-	-	-	-	-	-	-	2	2	686	8	4450	0	1.38	100	2	1	686	4450	0	1.38	100
22	-	-	-	-	-	-	-	-	4	4	696	5	4713	419	1.40	100	4	2	696	4713	419	1.40	100
23	1	1	707	-	4800	-	1.36	100	2	2	703	8	4500	212	1.30	100	3	2	704	4600	229	1.32	67
24	-	-	-	-	-	-	-	-	2	2	718	17	4725	601	1.27	100	2	1	718	4725	601	1.27	100
25	-	-	-	-	-	-	-	-	1	1	728	-	5250	-	1.36	100	1	1	728	5250	-	1.36	100
26	-	-	-	-	-	-	-	-	2	2	744	-	4975	177	1.21	100	2	1	744	4975	177	1.21	100
27	1	1	745	-	6450	-	1.56	100	2	2	758	5	6400	778	1.47	100	3	2	753	6417	551	1.50	67
28	-	-	-	-	-	-	-	-	5	5	772	6	5980	706	1.30	100	5	3	772	5980	706	1.30	100
29	-	-	-	-	-	-	-	-	1	1	792	-	6200	-	1.25	100	1	1	792	6200	-	1.25	100
30	1	1	860	-	8800	-	1.38	100	1	1	844	-	8300	-	1.38	100	2	1	852	8550	354	1.38	50
31	1	1	843	-	9500	-	1.59	100	1	1	785	-	7200	-	1.49	100	2	1	814	8350	1626	1.54	50
32	-	-	-	-	-	-	-	-	1	1	811	-	6600	-	1.24	100	1	1	811	6600	-	1.24	100
TOTAL	82							46	105							63	194						54
MEAN			518	106	2035	1582	1.24				580	123	2886	1790	1.27				549	2456	1745	1.25	
MEAN AGE	12.9								16.1								14.5						

Table 21. Biological data by age group for lake trout caught by experimental nets in the vicinity of Snowdrift and Frontier Lodge, Great Slave Lake, 1978 and 1980.

	MALES								FEMALES								COMBINED						
			Fork Length(mm)		Weight(g)						Fork Length(mm)		Weight(g)						Mean Fork Length	Weight(g)			
Age (yr)	N	%	Mean	SD	Mean	SD	K	% Mat.	N	%	Mean	SD	Mean	SD	K	% Mat.	N	%	(mm)	Mean	SD	K	% Female
3	1	1	175	-	75	-	1.40	0	3	2	185	21	75	25	1.16	0	9	3	188	73	25	1.09	33
4	6	5	223	11	114	20	1.03	0	3	2	245	42	183	63	1.25	0	13	5	229	128	45	1.05	23
5	6	5	295	27	268	75	1.01	17	1	1	312	-	300	-	0.99	0	9	3	280	234	97	1.00	11
6	1	1	324	-	375	-	1.10	0	3	2	321	12	333	29	1.00	0	4	2	322	344	31	1.03	75
7	4	3	357	20	519	75	1.14	0	1	1	342	-	375	-	0.94	0	6	2	352	488	82	1.11	17
8	9	8	403	21	772	156	1.17	0	8	6	381	26	615	144	1.10	13	20	8	394	701	153	1.13	40
9	12	10	420	18	842	141	1.13	17	9	7	424	29	933	230	1.20	11	23	9	419	854	199	1.15	39
10	13	11	440	22	973	156	1.14	0	7	5	448	14	1100	202	1.22	29	21	8	437	988	221	1.16	33
11	6	5	469	16	1225	216	1.18	33	6	5	461	19	1213	126	1.24	0	12	5	465	1219	169	1.21	50
12	12	10	506	11	1596	105	1.23	8	12	9	501	16	1535	284	1.21	17	25	9	503	1559	210	1.22	48
13	9	8	522	29	1814	317	1.27	33	6	5	529	10	1933	279	1.30	67	16	6	526	1864	288	1.28	38
14	9	8	550	12	2161	329	1.29	78	10	8	557	17	2165	332	1.24	80	19	7	554	2163	321	1.27	53
15	16	14	588	18	2678	311	1.32	94	10	8	581	16	2570	426	1.31	70	26	10	585	2637	355	1.31	38
16	4	3	624	12	3238	340	1.33	100	10	8	611	15	3105	334	1.36	80	14	5	615	3143	328	1.35	71
17	3	3	638	13	3483	501	1.35	100	8	6	639	6	3525	144	1.35	75	11	4	638	3514	255	1.35	73
18	2	2	646	12	3400	495	1.26	100	2	2	639	5	3400	0	1.31	100	4	2	642	3400	286	1.28	50
19	1	1	643	-	3700	-	1.39	100	2	2	667	3	3675	318	1.24	100	3	1	659	3683	225	1.29	67
20	-	-	-	-	-	-	-	-	3	2	666	3	3933	247	1.33	100	3	1	666	3933	247	1.33	100
21	-	-	-	-	-	-	-	-	2	2	686	8	4450	0	1.38	100	2	1	686	4450	0	1.38	100
22	-	-	-	-	-	-	-	-	4	3	696	5	4713	419	1.40	100	4	2	696	4713	419	1.40	100
23	1	1	707	-	4800	-	1.36	100	2	2	703	8	4500	212	1.30	100	3	1	704	4600	229	1.32	67
24	-	-	-	-	-	-	-	-	2	2	718	17	4725	601	1.27	100	2	1	718	4725	601	1.27	100
25	-	-	-	-	-	-	-	-	1	1	728	-	5250	-	1.36	100	1	0	728	5250	-	1.36	100
26	-	-	-	-	-	-	-	-	2	2	744	1	4975	177	1.21	100	2	1	744	4975	177	1.21	100
27	1	1	745	-	6450	-	1.56	100	2	2	758	5	6400	778	1.47	100	3	1	753	6417	551	1.50	67
28	-	-	-	-	-	-	-	-	5	4	772	6	5980	706	1.30	100	5	2	772	5980	706	1.30	100
29	-	-	-	-	-	-	-	-	1	1	792	-	6200	-	1.25	100	1	0	792	6200	-	1.25	100
30	1	1	860	-	8800	-	1.38	100	1	1	844	-	8300	-	1.38	100	2	1	852	8550	354	1.38	50
31	1	1	843	-	9500	-	1.59	100	1	1	785	-	7200	-	1.49	100	2	1	814	8350	1626	1.54	50
32	-	-	-	-	-	-	-	-	1	1	811	-	6600	-	1.24	100	1	0	811	6600	-	1.24	100
TOTAL	118							38	128							55	266						48
MEAN			482	125	1721	1482	1.22				546	143	2545	1818	1.26				499	2020	1714	1.22	
MEAN AGE	11.7								14.8								12.7						

Table 22. Biological data by age group for lake trout caught by experimental nets and anglers' creel in the vicinity of Snowdrift and Frontier Lodge, Great Slave Lake, 1978 and 1980.

	MALES								FEMALES								COMBINED						
			Fork Length(mm)		Weight(g)						Fork Length(mm)		Weight(g)						Mean Fork Length	Weight(g)			
Age (yr)	N	%	Mean	SD	Mean	SD	K	% Mat.	N	%	Mean	SD	Mean	SD	K	% Mat.	N	%	(mm)	Mean	SD	K	% Female
3	1	0	175	-	75	-	1.40	0	3	1	185	21	75	25	1.16	0	3	9	188	73	25	1.09	33
4	6	3	223	11	114	20	1.03	0	3	1	245	42	183	63	1.25	0	13	3	229	128	45	1.05	23
5	6	3	295	27	268	75	1.01	17	1	0	312	-	300	-	0.99	0	9	2	280	234	97	1.00	11
6	1	0	324	-	375	-	1.10	0	3	1	321	12	333	29	1.00	0	4	1	322	344	31	1.03	75
7	4	2	357	20	519	75	1.14	0	1	0	342	-	375	-	0.94	0	6	1	352	488	82	1.11	17
8	9	4	403	21	772	156	1.17	0	8	3	381	26	615	144	1.10	13	20	4	394	701	153	1.13	40
9	12	6	420	18	842	141	1.13	17	10	4	431	35	1000	303	1.22	20	24	5	422	885	247	1.15	42
10	18	8	454	33	1106	285	1.16	11	10	4	464	29	1260	311	1.24	40	29	6	453	1134	325	1.18	34
11	13	6	488	31	1435	364	1.21	46	8	3	477	33	1403	375	1.27	13	21	4	484	1423	359	1.24	38
12	23	11	510	22	1711	298	1.28	26	17	7	509	25	1640	341	1.23	24	41	8	509	1674	314	1.25	41
13	18	8	540	33	1955	345	1.24	44	14	6	537	23	1921	263	1.24	43	33	7	538	1939	303	1.24	42
14	13	6	562	26	2231	429	1.25	69	16	6	568	23	2416	460	1.30	81	29	6	565	2333	448	1.28	55
15	24	11	587	21	2783	542	1.37	92	20	8	586	22	2893	637	1.42	80	44	9	586	2833	583	1.40	45
16	7	3	626	10	3521	454	1.44	100	20	8	614	18	3298	541	1.42	80	27	6	617	3356	521	1.42	74
17	14	7	643	16	3961	529	1.49	100	15	6	639	9	3737	325	1.43	87	29	6	641	3845	443	1.46	52
18	7	3	651	16	3850	460	1.39	100	8	3	650	8	3813	494	1.39	100	15	3	651	3830	462	1.39	53
19	4	2	666	24	4213	563	1.43	100	8	3	664	13	4023	577	1.37	100	12	2	665	4079	555	1.39	67
20	3	1	672	37	4333	603	1.42	100	8	3	672	10	4581	659	1.51	100	11	2	672	4514	725	1.48	73
21	1	0	710	-	4400	-	1.23	100	9	4	698	14	4922	635	1.45	100	10	2	699	4870	621	1.43	90
22	1	0	713	-	4700	-	1.30	100	13	5	701	16	5250	737	1.52	100	14	3	701	5211	724	1.51	93
23	6	3	709	20	5517	838	1.54	100	7	3	716	19	5786	941	1.57	100	13	3	713	5662	869	1.56	54
24	2	1	731	1	6600	424	1.69	100	12	5	721	16	6000	768	1.60	100	14	3	722	6086	749	1.61	86
25	2	1	724	13	5900	566	1.55	100	4	2	726	17	5763	682	1.50	100	6	1	725	5808	590	1.52	67
26	3	1	742	2	6117	247	1.50	100	7	3	754	10	6407	1062	1.49	100	10	2	750	6320	886	1.49	70
27	2	1	760	21	6475	35	1.48	100	8	3	755	18	6788	719	1.58	100	10	2	756	6725	647	1.56	80
28	4	2	772	21	7775	1253	1.69	100	9	4	775	7	6706	1136	1.44	100	15	3	777	7097	1152	1.51	60
29	4	2	798	37	7500	1146	1.48	100	2	1	798	8	7050	1202	1.39	100	6	1	798	7350	1063	1.45	33
30	2	1	829	44	8500	424	1.50	100	5	2	822	25	9040	1752	1.62	100	7	1	824	8886	1465	1.59	71
31	1	0	843	-	9500	-	1.59	100	2	1	805	28	7000	283	1.35	100	3	1	817	7833	1457	1.43	67
32	-	-	-	-	-	-	-	-	3	1	848	37	8583	1718	1.40	100	3	1	848	8583	1718	1.40	100
33	1	0	848	-	8400	-	1.38	100	-	-	-	-	-	-	-	-	1	0	848	8400	-	1.38	0
TOTAL	212							57	254							71	488						52
MEAN			545	134	2652	2047	1.30				605	133	3624	2236	1.38				567	3086	2242	1.33	
MEAN AGE	14.3								17.2								15.5						

Table 23. Length-weight relationship summary, $\log_{10} W = a+b(\log_{10} L)$, for lake trout (unsexed) from the two sport fishery lodges located on Great Bear and Great Slave lakes, 1973 to 1980.

Lake	Lodge	Year		N	Y-intercept (a)	Slope (b)	Standard deviation of b (S_b)	95% C.I. of b
Great Bear Lake	Great Bear Trophy Lodge	1974	Creel sample	572	-4.7746	2.9350	0.0621	2.8070-3.0530
		1976	Creel sample[a]	401	-4.9760	3.0075	0.0244	2.9369-3.0681
			Creel sample[b]	505	-5.0929	3.0529	0.0283	2.9974-3.1074
		1980	Creel sample					
		1980	Experimental nets					
		1980	Combined	148	-5.3201	3.1247	0.0223	3.0728-3.1766
Great Slave Lake	Frontier Lodge	1973	Creel sample	690	-6.9134	3.7240	0.0867	3.5540-3.8980
		1974	Creel sample	543	-6.0151	3.4089	0.0448	3.2111-3.4967
		1975	Creel sample	860	-6.0266	3.4117	0.0494	3.3144-3.5085
		1978	Experimental nets	193	-5.7131	3.2960	0.0321	3.2131-3.3787
		1980	Creel sample	221	-6.2692	3.5091	0.0541	3.3833-3.6349
			Experimental nets	72	-5.4565	3.2012	0.0408	3.1063-3.2961
		1978 - 80	Experimental nets	293	-5.6543	3.2746	0.0222	3.2230-3.3262
		1978 - 80	Combined	488	-5.8172	3.3420	0.0179	3.3004-3.3836

Table 24. Annual mortality rates for lake trout from two sport fishing lodges located on Great Bear and Great Slave lakes, 1980.

	Year		Type of frequency data at age-class used	Age-classes used	Survival S	SE of S	Var. of S	Annual Mortality Rate (A) where A=1-S
GREAT BEAR LAKE								
Trophy Lodge	1980	Creel	actual and irregular	24 - 38	0.7394	0.0317	0.0010	0.2606
			moving means	24 - 38	0.7391	0.0403	0.0016	0.2609
		Experimental Nets	actual and irregular	7 - 24	0.8029	0.0273	0.0007	0.1971
			moving means	7 - 24	0.8099	0.0349	0.0012	0.1901
		Combined	actual and irregular	24 - 38	0.7328	0.0319	0.0010	0.2733
			moving means	24 - 38	0.7277	0.0404	0.0016	0.2672
GREAT SLAVE LAKE								
Frontier Lodge	1978	Experimental Nets	actual and irregular	16 - 32	0.8429	0.0139	0.0002	0.1571
			moving means	16 - 32	0.8417	0.0186	0.0003	0.1583
	1980	Creel	actual and irregular	18 - 33	0.8989	0.0118	0.0001	0.1011
			moving means	18 - 33	0.8530	0.0128	0.0002	0.1470
		Experimental Nets	actual and irregular	13 - 17	0.5135	0.0919	0.0064	0.4865
			moving means	13 - 17	0.5556	0.0800	0.0084	0.4444
		Combined	actual and irregular	16 - 33	0.8558	0.0080	0.0001	0.1442
			moving means	17 - 33	0.8603	0.0108	0.0001	0.1397

Table 25. Number and mean length by length interval for lake trout tagged in the vicinity of Great Bear Lodge on Great Bear Lake, and Frontier Lodge on Great Slave Lake, 1980.

Length Interval (mm)	FRONTIER LODGE			GREAT BEAR LODGE		
	N	%	Mean Fork Length(mm)	N	%	Mean Fork Length(mm)
325	-	-	-	1	0	349
350	6	3	364	-	-	-
375	12	7	388	3	1	385
400	5	3	415	3	1	410
425	14	8	440	5	1	435
450	21	12	461	5	1	465
475	17	9	484	9	2	488
500	26	15	509	6	1	513
525	16	9	536	15	4	541
550	13	7	562	32	8	562
575	13	7	587	65	16	590
600	8	4	615	94	23	612
625	9	5	636	71	18	638
650	4	2	667	34	8	662
675	5	3	686	23	6	686
700	3	2	716	8	2	714
725	2	1	739	7	2	733
750	3	2	756	3	1	756
775	1	1	777	3	1	788
800	1	1	817	1	0	802
825	-	-	-	3	1	831
850	-	-	-	2	0	854
875	-	-	-	2	0	882
900	-	-	-	3	1	910
925	-	-	-	1	0	934
950	-	-	-	1	0	956
1000	-	-	-	2	0	1010
1050	-	-	-	2	0	1067
1075	-	-	-	1	0	1087
TOTAL	179			405		
MEAN			525			623

Table 26. Data on angled trophy lake trout from Great Bear Lodge, Great Bear Lake, 1980 . . . .

Length Interval (mm)	No.	Percent	Mean Fork Length (mm)	Weight (g) Mean	SD	Condition Factor (K)	Percent Females
600	1	2	630	3405	-	1.36	0
650	1	2	655	5450	-	1.94	0
700	2	3	705	5428	1312	1.55	0
750	1	2	780	5448	-	1.15	0
800	2	3	819	6805	7	1.24	0
850	6	9	876	8246	928	1.23	0
900	14	21	918	8826	2040	1.14	0
950	9	14	966	9009	1402	1.01	0
1000	14	21	1020	13149	1681	1.24	0
1050	6	9	1079	14678	1562	1.17	0
1100	8	12	1112	16730	1815	1.22	0
1150	2	3	1165	18465	2779	1.16	0
TOTAL	66						0
MEAN			968	11182	4014	1.20	

Table 27. Summary of data on recaptured lake trout, tagged and released at Taltheilei Narrows - Great Slave Lake, 1973-80.

No.	Tagging Information			Recapture Information				At Liberty		Distance Moved(km)		Total Change(±)		Annual Increment(±)	
	Date	Length (mm)	Weight (g)	Location	Date	Length (mm)	Weight (g)	Days	Years	Direct	By Water	Length (mm)	Weight (g)	Length (mm)	Weight (g)
1	10/06/73	535	1800	Big Island	31/07/75	-	3632	781	2.1	5	5	-	+1832	-	+ 916
2	19/06/73	695	6200	South Island	16/06/74	-	-	362	1.0	5	5	-	-	-	-
3	17/06/73	552	2000	South Island	05/08/74	-	2724	414	1.1	5	5	-	+ 724	-	+ 658
4	17/06/73	550	2000	Taltheilei Narrows	20/07/74	-	-	398	1.1	1	1	-	-	-	-
5	18/06/73	990	11650	Big Island	06/08/74	-	11824	414	1.1	5	5	-	+ 174	-	+ 158
6	26/06/73	874	13050	Taltheilei Narrows	02/07/74	890	-	371	1.0	3	3	+ 16	-	+16	-
7	04/07/73	880	8060	South Island	12/07/74	-	-	373	1.0	5	5	-	-	-	-
8	19/07/73	857	8720	South Island	28/06/74	-	-	344	0.9	5	5	-	-	-	-
9	20/07/73	720	6800	Taltheilei Narrows	05/08/74	733	7300	381	1.0	1	1	+ 13	+ 500	+13	+ 500
10	25/08/73	609	2600	Redcliff Island	15/03/74	-	-	202	0.6	32	62	-	-	-	-
11	25/08/73	662	4100	Narrow Island	04/02/74	-	-	163	0.5	51	53	-	-	-	-
12	25/08/73	610	3100	Taltheilei Narrows	07/08/74	-	-	347	0.9	1	1	-	-	-	-
13	25/08/73	620	3050	Sulphur Point	08/01/74	-	-	136	0.4	256	288	-	-	-	-
14	25/08/73	585	2600	Et-Then Island	11/03/74	-	-	198	0.5	40	40	-	-	-	-
15	20/09/73	810	6300	Big Island	06/08/74	-	-	320	0.9	5	5	-	-	-	-
16	20/09/73	665	3100	South Island	22/06/74	-	-	275	0.8	5	5	-	-	-	-
17	20/09/73	705	4300	Fort Reliance	07/08/74	-	-	321	0.9	122	136	-	-	-	-
18	21/09/73	765	6600	Taltheilei Narrows	27/07/74	-	-	300	0.8	1	1	-	-	-	-
19	21/09/73	759	5900	Murky Channel	01/03/75	-	-	526	1.4	42	56	-	-	-	-
20	17/06/73	530	1600	Taltheilei Narrows	17/07/77	580	2400	1491	4.1	0	0	+ 50	+ 800	+12	+ 200
21	21/06/73	570	3200	Taltheilei Narrows	04/08/77	775	5650	1505	4.1	0	0	+250	+2450	+50	+ 598
22	10/07/73	755	6500	Taltheilei Narrows	27/06/77	780	7200	1448	4.0	1	1	+ 25	+ 700	+ 6	+ 175
23	25/08/73	585	2400	Taltheilei Narrows	29/06/77	738	3900	1404	3.9	2	2	+153	+1500	+39	+ 385
24	23/08/73	-	-	Taltheilei Narrows	26/07/77	-	5350	1483	4.1	-	-	-	-	-	-
25	18/06/73	758	6200	Taltheilei Narrows	29/07/77	825	6850	1502	4.1	3	3	+ 67	+ 650	+16	+ 159
26	27/08/73	832	8200	Taltheilei Narrows	10/06/77	855	8900	1383	3.8	2	2	+ 23	+ 700	+ 6	+ 184
27	20/06/73	-	-	Taltheilei Narrows	03/08/77	-	-	1505	4.1	-	-	-	-	-	-
28	21/06/73	680	4400	Taltheilei Narrows	21/06/73	-	-	0	0	2	2	-	-	-	-
29	20/09/73	704	3475	Matonabee Point	11/08/78	-	-	1786	4.9	126	140	-	-	-	-
30	11/06/73	925	11500	Arctic Star Lodge	10/07/78	942	10200	1855	5.1	80	80	+ 17	-1300	+ 3	- 255
31	25/08/73	673	4100	Taltheilei Narrows	20/07/79	890	5440	2186	5.9	1	1	+217	+1340	+37	+ 227
32	03/07/73	520	800	Et-Then Island	30/07/79	-	-	2218	6.0	40	40	-	-	-	-
33	20/09/73	660	-	Taltheilei Narrows	15/08/80	770	-	2157	5.9	0	0	+110	-	+18	-
34	10/09/73	630	3900	Pekanatui Point	15/08/80	800	7700	2167	6.0	60	70	+170	+3800	+28	+ 633
35	11/09/74	667	5000	Taltheilei Narrows	10/09/79	687	6400	1825	5.0	2	2	+ 20	+1400	+ 4	+ 280
36	11/09/74	853	7700	Taltheilei Narrows	09/07/80	907	9534	2132	5.8	2	2	+ 50	+1834	+ 7	+ 322
37	10/09/74	560	2500	Taltheilei Narrows	05/08/80	-	6000	2165	5.9	0	0	-	+3500	-	+ 593
38	06/06/74	615	3400	Taltheilei Narrows	29/07/75	-	3632	418	1.2	2	2	-	+ 232	-	+ 193
39	22/06/74	720	5300	Shelter Bay	22/09/74	-	-	92	0.3	58	64	-	-	-	-
40	06/06/74	705	5200	Taltheilei Narrows	12/09/74	-	5200	98	0.3	1	1	-	0	-	0
41	15/09/74	575	2200	Sosan Island	07/08/76	-	2700	693	1.9	25	25	-	+ 500	-	+ 263
42	10/09/74	815	6500	South Island	01/08/76	-	7400	691	1.9	5	5	-	+ 900	-	+ 474
43	14/09/74	585	2700	South Island	01/08/76	-	2700	695	1.9	5	5	-	0	-	0
44	12/09/74	755	5400	Big Island	22/07/76	-	7200	679	1.9	5	5	-	+1800	-	+1000
45	14/09/74	715	4700	Grayling Gap	06/07/76	-	5300	661	1.8	16	16	-	+ 600	-	+ 333
46	04/09/74	755	6200	McKinlay River	30/07/76	-	7900	695	1.9	16	16	-	+1700	-	+ 895
47	16/06/74	735	5500	Taltheilei Narrows	27/06/77	-	6300	1107	3.0	1	1	-	+ 800	-	+ 267
48	15/09/74	585	3300	Taltheilei Narrows	27/06/77	618	3500	1016	2.8	1	1	+ 33	+ 200	+12	+ 71
49	10/09/74	588	2800	Taltheilei Narrows	29/06/77	629	3200	1019	2.8	2	2	+ 41	+ 400	+15	+ 143
50	22/06/74	695	5200	Big Island	23/07/77	701	5200	1127	3.1	5	5	+ 6	0	+ 2	0
51	13/09/74	815	8900	Taltheilei Narrows	27/07/77	835	10200	1248	3.4	2	2	+ 20	+ 300	+ 6	+ 88
52	15/09/74	545	2000	Fort Reliance	02/08/77	-	3600	1252	3.4	122	128	-	+1600	-	+ 471
53	29/06/74	775	5900	McKinlay River	10/07/78	-	5900	1472	4.0	14	18	-	0	-	0
54	10/09/74	930	10200	Taltheilei Narrows	06/07/78	-	-	1581	4.3	0	0	-	-	-	-
55	16/07/77	605	2700	Taltheilei Narrows	29/07/77	-	-	13	<0.1	1	1	-	-	-	-
56	14/07/77	497	1450	Taltheilei Narrows	22/07/77	-	-	8	<0.1	1	1	-	-	-	-
57	25/06/77	922	13060	Taltheilei Narrows	02/07/77	-	-	7	<0.1	2	2	-	-	-	-
58	24/06/77	863	7000	Taltheilei Narrows	02/07/77	-	-	8	<0.1	2	2	-	-	-	-
59	28/06/77	560	2100	Taltheilei Narrows	02/07/77	-	-	4	<0.1	1	1	-	-	-	-
60	28/06/77	690	5200	Taltheilei Narrows	27/07/77	690	5200	29	<0.1	2	2	0	0	0	0
61	27/06/77	-	-	Taltheilei Narrows	-	-	8170	-	-	1	1	-	-	-	-
62	27/06/77	709	4850	Taltheilei Narrows	-	666	3150	-	-	1	1	-	-	-	-
63	14/07/77	700	4350	Taltheilei Narrows	02/08/77	-	4350	19	<0.1	2	2	-	0	-	0
64	27/06/77	650	4086	Keith Island	16/08/77	-	-	50	0.1	55	61	-	-	-	-
65	23/08/77	898	10050	Taltheilei Narrows	11/07/78	932	10000	322	0.9	0	0	+ 34	- 50	+38	- 56
66	26/08/77	727	5700	Pekanatui Point	01/08/78	-	-	340	0.9	53	58	-	-	-	-
67	18/08/77	884	7500	Taltheilei Narrows	29/07/78	-	-	345	1.0	0	0	-	-	-	-
68	24/08/77	590	2600	Blanchet Island	15/08/78	-	-	356	1.0	94	99	-	-	-	-
69	04/08/77	736	4900	Taltheilei Narrows	25/06/78	-	-	325	0.9	-	-	-	-	-	-
70	26/06/77	675	4400	Taltheilei Narrows	10/08/78	-	-	418	1.1	-	-	-	-	-	-
71	14/07/77	674	3800	Taltheilei Narrows	19/07/79	740	3800	736	2.0	0	0	+ 66	0	+33	0
72	24/07/77	860	8000	Taltheilei Narrows	17/07/79	-	-	754	2.0	0	0	-	-	-	-
73	25/06/77	870	9021	Taltheilei Narrows	25/06/79	870	9000	731	2.0	0	0	0	- 21	0	- 10
74	26/06/77	739	6450	Taltheilei Narrows	10/09/79	740	6600	807	2.2	0	0	+ 1	+ 150	0	+ 68
75	24/06/77	985	14000	Taltheilei Narrows	30/08/79	990	14500	798	2.2	0	0	+ 5	+ 500	+ 3	+ 227

Table 27. cont'd.

No.	Tagging Information			Recapture Information				At Liberty		Distance Moved(km)		Total Change(±)		Annual Increment(±)	
	Date	Length (mm)	Weight (g)	Location	Date	Length (mm)	Weight (g)	Days	Years	Direct	By Water	Length (mm)	Weight (g)	Length (mm)	Weight (g)
76	15/07/77	788	6550	Narrow Island	15/01/80	904	9100	910	2.5	35	40	+116	+2550	+46	+1060
77	26/07/77	775	6700	Taltheilei Narrows	01/08/79	-	-	748	2.1	0	0	-	-	-	-
78	26/07/77	640	2300	Taltheilei	01/08/79	-	-	748	2.1	0	0	-	-	-	-
79	19/08/77	600	3200	Taltheilei	17/08/80	625	3600	1093	3.0	0	0	+ 25	+ 400	+ 8	+ 130
80	02/06/77	685	4500	Simpson Island	03/08/79	-	-	772	2.1	70	80	-	-	-	-
81	18/08/77	550	2000	Simpson Island	03/08/79	-	-	716	2.0	70	80	-	-	-	-
82	19/08/77	540	2000	Snowdrift	19/10/79	565	2400	795	2.2	60	90	+ 25	+ 400	+11	+ 189
83	08/09/77	640	3600	Taltheilei Narrows	13/07/80	705	-	675	1.8	0	0	+ 65	-	+36	-
84	16/09/77	578	2800	Taltheilei Narrows	15/08/80	-	-	702	1.9	?	?	-	-	-	-
85	15/07/77	659	4350	Taltheilei Narrows	01/08/80	750	5200	1111	3.0	0	0	+100	+ 850	+33	+ 280
86	08/09/77	551	2300	Et-Then Island	15/07/80	-	-	1072	2.9	40	40	-	-	-	-
87	27/06/78	790	7500	Big Stone Point	01/08/79	-	-	401	1.1	85	96	-	-	-	-
88	23/06/78	892	8500	Taltheilei Narrows	05/08/80	-	8000	772	2.1	0	0	-	- 500	-	- 250

Table 28. Summary of data on recaptured lake trout, tagged and released in the area of sport fishing lodges on Great Slave Lake, 1973 - 1980.

No.	Tagging Information			Recapture Information				At Liberty		Distance Moved(km)		Total Change(±)		Annual Increment(±)	
	Date	Length (mm)	Weight (g)	Location	Date	Length (mm)	Weight (g)	Days	Years	Direct	By Water	Length (mm)	Weight (g)	Length (mm)	Weight (g)
Snowdrift															
1	24/07/73	430	1100	Pearson Point	27/07/76	-	-	1098	3.0	8	8	-	-	-	-
2	26/07/73	380	600	Stark Bay	16/08/76	-	-	1118	3.1	1	1	-	-	-	-
3	31/07/73	375	900	Stark Bay	14/07/77	478	1590	1443	3.9	0	0	+103	+690	+26	+177
4	07/07/80	570	-	The Gap	24/07/77	570	-	17	-	6	6	-	-	-	-
5	12/08/80	610	-	Pekanatui Point	15/08/80	610	-	33	0.1	45	58	-	-	-	-
6	04/08/80	635	-	Pekanatui Point	15/08/80	635	-	42	0.1	45	58	-	-	-	-
Arctic Star Lodge															
1	10/07/78	545	1900	Taltheilei Narrows	03/08/78	545	1900	24	-	70	88	(	0	-	-
2	01/07/78	555	2100	Simpson Island	10/08/78	555	2100	19	-	45	52	0	0	-	-
3	08/08/78	611	3400	Taltheilei Narrows	19/07/79	640	3900	376	1.0	70	88	+ 29	+500	+29	+500
4	21/07/78	598	2800	Arctic Star Lodge	28/07/79	600	2800	373	1.0	5	5	+ 2	0	+ 2	0
5	02/08/78	841	7600	Waldron River	09/07/79	850	7600	342	1.0	30	30	+ 9	0	+ 9	0
6	14/08/78	583	2600	Arctic Star Lodge	19/07/79	-	-	335	0.9	0	0	-	-	-	-
7	08/07/78	535	1700	Benny Bay	09/07/80	550	2200	731	2.0	20	20	+ 15	+500	+ 7	+250
8	15/07/78	605	2900	Arctic Star Lodge	26/08/80	625	3150	771	2.1	0	0	+ 20	+250	+10	+119
9	14/08/78	530	2000	Arctic Star Lodge	26/08/80	540	2200	770	2.1	7	7	+ 10	+200	+ 5	+ 96
10	07/08/78	685	4500	Arctic Star Lodge	16/08/80	700	-	740	2.0	0	0	+ 15	-	+ 7	-
11	15/08/78	863	9300	Pekanatui Point	15/08/80	-	-	720	2.0	130	160	-	-	-	-
Fort Reliance															
1	20/07/74	660	3500	Taltheilei Narrows	21/07/76	-	4450	731	2.0	110	130	-	+850	-	+425
2	14/07/79	767	-	Mayfeully Point	25/07/79	767	-	11	-	-	-	0	-	-	-
3	11/07/79	708	-	Mayfeully Point	19/07/79	708	-	8	-	-	-	0	-	-	-
4	16/07/79	583	-	Fort Reliance	27/06/80	642	-	346	1.0	6	6	+ 59	-	+ 59	-
5	20/07/79	925	-	Fort Reliance	10/10/79	-	-	80	0.2	0	0	-	-	-	-
6	09/07/79	910	-	Fort Reliance	10/10/79	-	-	91	0.2	0	0	-	-	-	-
7	28/07/79	612	-	Fort Reliance	02/07/80	616	-	339	0.9	+4	-	+ 4	-	+ 4	-
8	17/07/79	665	-	Et-Then Island	15/07/80	-	-	363	1.0	130	170	-	-	-	-

Appendix 1. Daily water temperatures (°C) taken at Great Bear Trophy Lodge, Great Bear Lake and Frontier Lodge, Great Slave Lake, 1980.

GREAT BEAR LAKE

Great Bear Trophy Lodge

Date	Temperature (°C)	Date	Temperature (°C)
July 2	13.0	August 1	12.0
3	13.5	2	11.5
4	14.0	3	11.5
5	14.0	4	12.0
6	14.5	5	11.5
7	14.0	6	11.5
10	14.0	7	12.0
11	14.5	8	12.5
13	12.0	9	13.0
15	13.5	10	15.0
17	14.0	11	10.5
18	15.0	12	13.0
20	13.0	13	15.0
22	15.0	14	13.0
23	13.0	15	13.5
24	13.0	16	13.0
25	14.0	17	13.0
26	13.0	18	14.0
27	13.0	19	11.5
28	12.5	20	11.5
29	11.5	21	12.5
30	11.0	22	11.5
31	12.0	23	11.5
		24	11.5
		25	11.5

GREAT SLAVE LAKE

Frontier Lodge

Date	Temperature (°C)	Date	Temperature (°C)
July 2	11.5	August 1	17.0
3	11.5	2	14.0
4	12.0	3	12.5
5	11.5	4	15.0
6	11.0	5	10.5
7	10.5	6	11.0
8	11.5	7	12.5
9	14.0	8	13.0
10	13.0	9	13.5
12	12.0	10	13.5
13	12.5	11	14.0
14	16.5	12	13.0
15	15.0	13	16.0
16	13.0	14	12.0
17	7.0	15	11.0
19	14.0	16	
20	14.0	17	14.0
21	13.5	18	13.0
22	14.0	19	12.5
29	14.0		
30	13.5		
31	15.0		

Appendix 2. Summary of fishing license sales from sport fishing lodges on Great Bear and Great Slave lakes, 1980 and 1981.

	1980			1981		
	Resident[a]	Non-Resident	Total	Resident[a]	Non-Resident	Total
GREAT BEAR LAKE						
Arctic Circle Lodge	79	207	286	101	197	298
Branson's Lodge	115	250	365	143	181	324
Great Bear Lake Lodge (Plummer's)	78	285	363	96	289	385
Great Bear Lodge	9	137	146	12	158	170
Great Bear Trophy Lodge	100	287	387	N/A	N/A	N/A
Sah-Tew Lodge (Fort Franklin)	N/A	N/A	N/A	N/A	N/A	N/A
	381	1166	1547	352	825	1177
GREAT SLAVE LAKE						
Arctic Star Lodge	35	102	137	49	124	173
Frontier Fishing Lodge	56	192	248	96	143	239
Great Slave Lake Lodge (Plummer's)	140	414	554	136	526	662
Indian Mountain Lodge	N/A	N/A	N/A	N/A	N/A	N/A
Trophy Lodge (Reliance)	9	42	51	13	49	62
	240	750	990	294	842	1136

[a]Resident of Canada
N/A - not available